	Application No.	Applicant(s)
Notice of Allowability	10/690,470	WARBURTON ET AL.
	Examiner	Art Unit
	Manuel L. Barbee	2857
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to papers filed 16 November 2005.		
2. The allowed claim(s) is/are 1-42 and 44-78.		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have been received.</li> </ul>		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1)  hereto or 2)  to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of		
Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. Notice of References Cited (PTO-892)		atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	
3. ⊠ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dat 8), 7. ☐ Examiner's Amendn	e nent/Comment
Paper No./Mail Date <u>11/16/05</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.	
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Application/Control Number: 10/690,470

Art Unit: 2857

## **DETAILED ACTION**

Page 2

## Allowable Subject Matter

1. Claims 1-42 and 44-78 are allowed.

2. The following is a statement of reasons for the indication of allowable subject matter: None of the prior art teaches a method or apparatus for measuring the integrated area of a pulse-like input signal applied to a device characterized by one or more decay time constants in the device's impulse response function by measuring a step-like output signal, referred to as the primary signal, that includes creating a set of secondary signals by directing the primary signal into a plurality of signal paths, performing filtering or delaying in at least one signal path, applying a set of weighting coefficients to the secondary signals, summing the secondary signals, performing at least one capturing operation after any filtering or delaying operation to produce a value that is a measure of the integrated area of the input signal, wherein the filtering, delaying and/or capturing operations establish a defined time correlation between the secondary signals with respect to one another and wherein the weighting coefficients applied to the secondary signals are selected based on the nature of any filters used in the filtering, on the defined time correlation established between the secondary signals and on the value of the decay time constants associated with the device, as shown in claims 1, 58 and 70. None of the prior art teaches teach a method for determining the integrated area of a pulse-like input signal by measuring the step-like output provided by a device in response to the pulse-like input that includes applying a filter set to a device output, detecting the presence of a step-like feature, capturing a set of correlated

Application/Control Number: 10/690,470

Art Unit: 2857

determine the integrated area, where the weights are selected to compensate for errors

arising either from the time structure of the pulse-like input, or for deviations from an

multiple output sample values, and forming a weighted sum of the sample values to

ideal single-pole response, as shown in claims 65 and 67.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Manuel L. Barbee whose telephone number is 571-272-

2212. The examiner can normally be reached on Monday-Friday from 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Marc S. Hoff can be reached on 571-272-2216. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

mlb

December 16, 2005

SUPERVISORY PATENT EXAMINER

Page 3

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